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COMMITTEE ON THE PEACEFUL USES OF OUTER SPACE

Education, Training, Research and Fellowship Opportunities in Space Science and Technology and its Applications: a Directory

Addendum

The present addendum contains additional and updated information received by the Secretariat between 1 February 1989 and 10 May 1990.

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I. BASIC SPACE SCIENCES

AUSTRIA

INSTITUTION

AUSTRIAN SPACE AGENCY (ASA)

Garnisongasse 7, A-1090 Vienna, Austria

Telex: 116560 ASA A Tel.: 403 81 770 Fax: 42 82 28
Cable: ASASPACE WIEN

Contact person: Prof. Johannes Ortner

Principal function(s) of institution: Administration and co-ordination

1. ACADEMIC AND SCIENTIFIC PROGRAMMES

Summary of courses and research activities: ASA is organizing workshops and summer schools together with other space organizations in the fields of space science and its applications

Duration/Frequency/Language(s) of instruction: 10 days/One per year/
Alternatively with subjects on space applications (remote sensing)/English

Allocation of time spent in Classroom/Laboratory/Field Work/Independent Research: 100%/---/--/--

Facilities: None

Number of trainees: About 60

Entry requirements: M.Sc., M.Eng., Ph.D.

Degree/Diploma/Certificate awarded: Certificate of participation

2. COST OF PROGRAMMES

Cost of tuition, texts and related research material: None

Monthly room and board and incidental expenses: Travel expenses to be borne by participants, room and board provided free of charge

3. SCHOLARSHIP/FELLOWSHIP OPPORTUNITIES

Scholarship/Fellowship opportunities for foreign participants:
3-5 fellowships could be made available

Other financial support available for foreign participants: None

/...

4. COLLABORATION WITH DEVELOPING COUNTRIES: Yes

Specific areas of interest: Space sciences (including life sciences)

Geographical preference: None

II. REMOTE SENSING

AUSTRIA

INSTITUTION

AUSTRIAN SPACE AGENCY (ASA)

Garnisonsgasse 7, A-1090 Vienna, Austria

Telex: 116560 ASA A

Tel.: 403 81 770

Fax: 42 82 28

Cable: ASASPACE WIEN

Contact person: Dr. Erwin Mondre

Principal function(s) of institution: Administration and co-ordination

1. ACADEMIC AND SCIENTIFIC PROGRAMMES

Summary of courses and research activities: ASA is organizing workshops and summer schools together with other space organizations in the fields of space science and its applications, including remote sensing

Duration/Frequency/Language(s) of instruction: 10 days/One per year/
Alternatively with subjects on space sciences/English

Allocation of time spent in Classroom/Laboratory/Field Work/Independent Research: 70%/30%/--/--

Facilities: None

Number of trainees: About 60

Entry requirements: M.Sc., M.Eng., Ph.D.

Degree/Diploma/Certificate awarded: Certificate of participation

2. COST OF PROGRAMMES

Cost of tuition, texts and related research material: None

Monthly room and board and incidental expenses: Travel expenses to be borne by participants, room and board provided free of charge

3. SCHOLARSHIP/FELLOWSHIP OPPORTUNITIES

Scholarship/Fellowship opportunities for foreign participants:
3-5 fellowships could be made available

Other financial support available for foreign participants: None

/...

4. COLLABORATION WITH DEVELOPING COUNTRIES: Yes

Specific areas of interest: Remote sensing

Geographical preference: None

UNITED STATES OF AMERICA

INSTITUTION

CITY UNIVERSITY OF NEW YORK (CUNY), HUNTER COLLEGE, GEOLOGY AND GEOGRAPHY
DEPARTMENT

695 Park Avenue, New York, N.Y. 10021, United States

Telex: --

Tel.: (212) 777-5265

Cable: --

Contact person: Graduate advisor

Principal function(s) of institution: Education and research

1. ACADEMIC AND SCIENTIFIC PROGRAMMES

Summary of courses and research activities

Courses: Photogrammetry and air photo-interpretation, principles of remote sensing, digital image processing, spatial modelling in special topics in remote sensing and geographic information systems

Research: Geometric-optical modelling, information storage and retrieval systems, digital terrain data

Duration/Frequency/Language(s) of instruction: 14 weeks/Annually/English

Allocation of time spent in Classroom/Laboratory/Field Work/Independent

Research: May vary from course to course

Facilities: The Department has access to the CUNY Computing Center IBM mainframe computers via direct link and dial-up lines along with its own VAX 11/730 minicomputer, SUN Network, ERDAS work stations, large co-ordinate digitizer and assortment of microcomputers with a variety of functions. Computers at all levels are networked together, thus providing great flexibility to the computing environment. The Remote Sensing and Spatial Analysis Laboratory is fully equipped with terminals, plotters and printers; it also has a number of optical remote sensing and surveying instruments. Many software packages are supported, as is a library of image and cartographic data

Number of trainees: Between 1 and 5

Entry requirements: Equivalent to United States B.A. in Geography, related fields, college physics, mathematics, calculus, statistics and TOEFL examination

Degree/Diploma/Certificate awarded: Master's degree

/...

2. COST OF PROGRAMMES

Cost of tuition, texts and related research material: New York State residents: per credit - \$US 82, per excess contact hour \$US 37, Maximum per term - \$US 950; out-of-state residents: per credit - \$US 198.50, per excess contact hour \$US 52.00, Maximum per term - \$US 2,350; Estimated cost of textbooks: \$US 150 per semester

Monthly room and board and incidental expenses: Variable, \$US 1,000-2,000

3. SCHOLARSHIP/FELLOWSHIP OPPORTUNITIES

Scholarship/Fellowship opportunities for foreign participants: The Dept. has 2-5 teaching/research assistantships awarded for all applicants

Other financial support available for foreign participants: Information not available

4. COLLABORATION WITH DEVELOPING COUNTRIES: Yes

Specific areas of interest: All research areas mentioned above

Geographical preference: None

UNITED NATIONS ECONOMIC COMMISSION FOR AFRICA (ECA)

INSTITUTION

REGIONAL CENTRE FOR TRAINING IN AEROSPACE SURVEYS, NIGERIA

P.M.B. 5545, ILE-IFE, Nigeria

Telex: 34262 RECTAS NG Tel.: 036-230-050 Cable: AEROCENTRE

Contact person: Prof. O.O. Ayeni, RECTAS, P.M.B. 5545, ILE-IFE, Nigeria

Principal function(s) of institution: Training, research and consultancy

1. ACADEMIC AND SCIENTIFIC PROGRAMMES

Summary of courses and research activities:

Training: Postgraduate course in remote sensing and technician course in remote sensing

Research: Applications of remotely sensed data to Earth resources evaluation

Duration/Frequency/Language(s) of instruction: 9 months/12 months/English, French

Allocation of time spent in Classroom/Laboratory/Field Work/Independent Research: 208 hrs/250 hrs/3 months/--

Facilities: Remote sensing and cartographic equipment, photo-reproduction

Number of trainees: Between 10 and 30

Entry requirement: Technician's level plus experience in the relevant field of specialization

Degree/Diploma/Certificate awarded: Academic diploma

2. COST OF PROGRAMMES

Cost of tuition, texts and related research material: Costs of tuition, lodging, teaching, books and insurance to be obtained by writing to the Director of Centre

Monthly room and board and incidental expenses: Included above

3. SCHOLARSHIP/FELLOWSHIP OPPORTUNITIES

Scholarship/Fellowship opportunities for foreign participants: Netherlands fellowships

Other financial support available for foreign participants: British Council

/...

4. COLLABORATION WITH DEVELOPING COUNTRIES: Yes

Specific areas of interest: Application of remotely sensed data to Earth resources evaluation

Geographical preference: Africa region

III. SATELLITE COMMUNICATIONS

AUSTRALIA

INSTITUTION

ROYAL MELBOURNE INSTITUTE OF TECHNOLOGY

124 La Trobe St., P.O. Box 2476, Melbourne, Victoria, 3001, Australia

Telex: AA36406

Tel.: (03)662-0611

(03)663-5611

Cable: MELTECH Melbourne

Contact person: Mr. G. H. V. Thomson, School of Electrotechnology;
Mr. Q. Manh, Senior Lecturer, Department of Communication and Electrical
Engineering

Principal function(s) of institution: Education and applied research

1. ACADEMIC AND SCIENTIFIC PROGRAMMES

Summary of courses and research activities: Applied Science Faculty:
Satellite positioning via the Global Positioning System; undergraduate
teaching of applied science in surveying; research and experimental activities
related to the Global Positioning System
Engineering Faculty: Continuing education for practising engineers in
satellite communications
Technical College: Technician course in satellite ground station
maintenance

Duration/Frequency/Language(s) of instruction: One semester/Annually/English;
Engineering Faculty: 2,5 weeks/Annually/English

Allocation of time spent in Classroom/Laboratory/Field Work/Independent
Research: Applied Science Faculty (60%/20%/--/20%), Engineering Faculty
(45%/30%/--/25%), Technical College (50%/40%/10%/--)

Facilities: Applied Science Faculty (Global Positioning Receiver in 1986);
Engineering Faculty (Satellite Receiving Earth Station, Communications
Laboratory-extensive facilities);
Technical College (Communication equipment, data communication,
multiplexing/computer data equipment)

Number of trainees: Applied Science Faculty (between 1 and 2); Engineering
Faculty (16), Technical College (between 10 and 16)

Entry requirements: Applied Science Faculty (Univ. entrance exam.);
Engineering Faculty (Bachelor of Engineering in Electrical, Electronic or
Communications Engineering), Technical College (Electronic tradesman
qualification)

/...

Degree/Diploma/Certificate awarded: Applied Science Faculty (part of Bachelor of Appl. Science and Master of Appl. Science); Engineering Faculty (Certificate of Course Attendance); Technical College (Electronic Technician)

2. COST OF PROGRAMMES

Cost of tuition, texts and related research material: Engineering Faculty:
\$A 16,000 per course with 16 participants maximum

Monthly room and board and incidental expenses: \$A 700; Engineering Faculty:
\$A 16,000 per course with 16 participants maximum

3. SCHOLARSHIP/FELLOWSHIP OPPORTUNITIES

Scholarship/Fellowship opportunities for foreign participants: None

Other financial support available for foreign participants: None

4. COLLABORATION WITH DEVELOPING COUNTRIES: Yes

Specific areas of interest: Satellite positioning and communications technology

Geographical preference: South-East Asia, Papua New Guinea; None for Engineering Faculty

UNITED KINGDOM OF GREAT BRITAIN AND
NORTHERN IRELAND

INSTITUTION

CABLE AND WIRELESS TELECOMMUNICATIONS COLLEGE

Porthcurno, Penzance, TR49 6JX, United Kingdom

Telex: 45272

Tel.: 736-810477

Fax: 736-810640

Contact person: The Admissions Office

1. ACADEMIC AND SCIENTIFIC PROGRAMMES

Summary of Courses and Research Activities

Courses: Satellite Earth Station Operation and Maintenance

Supplementary courses:

- Intelsat IDR Service
- Earth Station Principles
- Project Management

Duration/Frequency/Language(s) of instruction: 5 weeks/
2 per annum/English, supplementary courses between 1 and 3 weeks' duration

Allocation of time spent in Classroom/Laboratory/Field Work/Independent
Research: 60%/40%/--/--

Facilities: Fully equipped lecture rooms and working equipment

Number of trainees: 8

Entry requirements: Field experience in microwave telecommunications

Degree/Diploma/Certificate awarded: Certificate of Completion

2. COST OF PROGRAMMES

Cost of tuition, tests and related research material: 465 British pounds
+ VAT per week

Monthly room and board and incidental expenses: 170 British pounds + VAT
per week

3. SCHOLARSHIP/FELLOWSHIP OPPORTUNITIES

Scholarship/Fellowship opportunities for foreign participants: --

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Other financial support for foreign participants: British Council and Commonwealth assistance must be applied for in applicant's own country

4. COLLABORATION WITH DEVELOPING COUNTRIES: Yes

Specific areas of interest: All telecommunications-related training

Geographical preference: None

IV. SATELLITE METEOROLOGY

WORLD METEOROLOGICAL ORGANIZATION (WMO)

INSTITUTION

41 Giuseppe-Motta, Case postale N2300, CH-1211 Geneva, Switzerland

Telex: 23260 OMM CH Tel.: (41) 22 730 81 11 Fax: 41 22 734 23 26

Contact person: Chief, Training Activities Division

Principal function(s) of institution: Promotion of world-wide co-operation of meteorology and operational hydrology

1. ACADEMIC AND SCIENTIFIC PROGRAMMES

Summary of courses and research activities:

Courses: WMO organizes, sponsors or co-sponsors about 40-50 training events per year on meteorology and operational hydrology as directed by its constituent bodies. Many of the events are related to applications of space science and technology

Research: N/A

Duration/Frequency/Language(s): Various

2. COST OF PROGRAMMES: N/A

3. SCHOLARSHIP/FELLOWSHIP OPPORTUNITIES

Scholarship/Fellowship opportunities for foreign participants: Long- and short-term fellowships are offered under WMO's regular budget and the Voluntary Co-operation Programme, the United Nations Development Programme (UNDP) and funds-in-trust for candidates nominated by their Governments

Other financial support: None

4. COLLABORATION WITH DEVELOPING COUNTRIES: Yes

Specific areas of interest: Meteorology and operational hydrology

Geographical preference: None
